

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.
Secretary to the Commission

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OPINION 443

Designation under the Plenary Powers of a type species
in harmony with accustomed usage for the genus
Monticulipora d'Orbigny, October 1849 (Class Bryozoa)
(Ordovician)

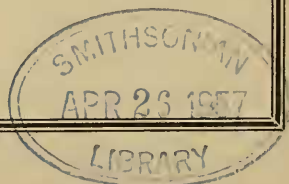
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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 443

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(*arranged in order of precedence by reference to date of election or of most recent re-election as prescribed by the International Congress of Zoology*)

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Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

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Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

OPINION 443

DESIGNATION UNDER THE PLENARY POWERS OF A
TYPE SPECIES IN HARMONY WITH ACCUSTOMED
USAGE FOR THE GENUS " MONTICULIPORA "
D'ORBIGNY, OCTOBER 1849 (CLASS BRYOZOA)
(ORDOVICIAN)

RULING :—(1) Under the Plenary Powers (a) all designations or selections of type species for the genus *Monticulipora* d'Orbigny, October 1849 (Class Bryozoa) made prior to the present Ruling are hereby set aside and (b) the nominal species *Monticulipora mammulata* d'Orbigny, [January 1850], is hereby designated to be the type species of the foregoing genus.

(2) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name Number 1053 : *Monticulipora* d'Orbigny, October 1849 (gender : feminine) (type species, by designation under the Plenary Powers in (1)(b) above : *Monticulipora mammulata* d'Orbigny, [January 1850]).

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1125 : *mammulata* d'Orbigny, [January 1850], as published in the combination *Monticulipora mammulata* (specific name of type species of *Monticulipora* d'Orbigny, October 1849).

(4) The under-mentioned generic name is hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Number 847 : *Monticuliporella* Bassler, 1934 (a junior objective synonym of *Monticulipora* d'Orbigny, October 1849).

(5) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Number 372 : *frustulosa* d'Orbigny, October 1849, as published in the combination *Monticulipora frustulosa* (an Erroneous Subsequent Spelling for *pustulosa* Michelin, 1846, as published in the combination *Ceripora pustulosa*).

(6) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Number 134 : MONTICULIPORIDAE Nicholson, 1881 (type genus : *Monticulipora* d'Orbigny, October, 1849).

I. THE STATEMENT OF THE CASE

On 8th June 1951 Dr. R. S. Bassler (*Smithsonian Institution, Washington, D.C., U.S.A.*) and Miss Helen Duncan (*United States Geological Survey, Washington, D.C., U.S.A.*) addressed a preliminary application to the International Commission on Zoological Nomenclature on the subject of the possible use of the Commission's Plenary Powers for the purpose of securing the continued use in its accustomed sense of the generic name *Monticulipora* d'Orbigny, 1849 (Class Bryozoa). Pressure of other work in the Office of the Commission made it impossible to make any progress with this case until towards the end of 1954 when consultations with the applicants were opened by the Secretary for the purpose of securing that the request made should cover all the matters with which by General Directives issued by the Thirteenth (Paris) and Fourteenth (Copenhagen) International Congresses of Zoology the International Commission is required to deal when taking decisions on applications in regard to individual names submitted to it for decision. These

consultations were completed on 12th January 1955 when the following definitive application was submitted to the International Commission :—

**Proposed use of the Plenary Powers to standardize the current use of
“ Monticulipora ” d’Orbigny, 1849 (Class Bryozoa, Order
Cyclostomata or Trepostomata, Family
“ MONTICULIPORIDAE ” Nicholson)**

By

R. S. BASSLER

(*Smithsonian Institution, Washington, D.C., U.S.A.*)

and

HELEN DUNCAN

(*United States Geological Survey, Washington, D.C., U.S.A.*)

The object of the present application is to validate the long-established usage of the generic name *Monticulipora* d’Orbigny, the name of one of the most widely discussed and applied genera of fossil Bryozoa during the last hundred years. This name was proposed by d’Orbigny in a little known publication wherein he named a European Jurassic species now belonging to the Order Cyclostomata as the type species. Since then various volumes and many individual papers have been concerned with *Monticulipora* under such titles as “The Problem of the Monticuliporoidea”, “The Genus *Monticulipora*”, etc., so that today these fossils, first supposed to be in part Tabulate corals, are regarded as Bryozoa either of the Order Cyclostomata or Trepostomata, the latter marked by the special internal structure of acanthopores, cystiphragms and diaphragms, known as monticuliporoid. Unfortunately, the literature upon the genus contains so many diverse applications of the name in Paleozoic stratigraphy and paleontology and so little mention in the Mesozoic that we feel the present somewhat unusual appeal should be made to the Commission to untangle the present-day taxonomic confusion. A short history of the name *Monticulipora* follows.

2. D’Orbigny Oct., 1849 (*Rev. Mag. Zool.* (2) 1 : 503) cites as type species of *Monticulipora* new genus, *M. frustulosa* d’Orbigny; *Ceriopora pustulosa* Michelin, 1846, Jurassic of France.

3. D’Orbigny, [1850] (*Prod. Pal.* 1 : 25, 323, with printed date of 1849 in some volumes and 1850 in others, the latter containing an

added list of publications) lists with very brief remarks species of *Monticulipora* first from the Ordovician of Ohio and later the Jurassic of France. *M. mammulata* d'Orbigny, 1850 (: 25) the first mentioned Ordovician species was adopted as type species by practically all later students, probably unaware of the 1849 designation of the Jurassic *Ceriopora pustulosa*. No other author apparently save d'Orbigny has ever recorded any species of *Monticulipora* from the Mesozoic and d'Orbigny forgot his 1849 Jurassic type designation by creating two new genera based upon it and a synonymous species in 1854.

4. Edwards and Haime, 1851 (*Mon. Polyp. Foss. Ter. Pal.* : 267, pl. 19, figs. 1, 1a) describe and illustrate presumably a d'Orbigny type specimen of *M. mammulata* as *Chaetetes mammulata* which has the massive form of growth regarded by subsequent students as typical.

5. Edwards and Haime, 1854 (*Brit. Fossil Corals* : 265) recognize *Chaetetes mammulata* as *Monticulipora mammulata*.

6. D'Orbigny, 1854 (*Bry. Cret.* : 1013) does not mention *Monticulipora* again but instead cites its originally named type species of 1849 (*Ceriopora pustulosa* Michelin, 1846) as type species of the new genus *Nodicava* d'Orbigny, 1854, Jurassic of France.

7. D'Orbigny, 1854 (*Bry. Cret.* : 1013) proposed *Ceriopora corymbosa* Lamouroux, 1821 (of which *C. pustulosa* Michelin, 1846 is a synonym) as type species of still another new genus *Ceriocava* d'Orbigny, 1854, Jurassic of France, three genera now based upon *Ceriopora pustulosa* and *C. corymbosa*.

8. Nicholson, 1881 (*Genus Monticulipora* : 224, pl. 6, figs. 2, 2d), describes the frondescent growth-form of the Ordovician *Monticulipora mammulata* as *M. molesta* and (: 90) establishes MONTICULIPORIDAE the typical family of the present day Order Trepostomata.

9. Ulrich, 1882 (*J. Cin. Soc. Nat. Hist.*, 5 : 234, pl. 10, figs. 5, 5a) describes fully as *M. mammulata* the massive and frondescent forms of growth recognized as types by Edwards and Haime, 1851, and Nicholson, 1881.

10. Gregory, 1896 (*Cat. Foss. Bry. Brit. Mus.*—Jurassic) makes no mention of *Monticulipora* as a Mesozoic genus but cites d'Orbigny's 1849 type species *Ceriopora pustulosa* Michelin, 1846, as a synonym of *C. corymbosa* Lamouroux, 1821 and the latter as type species of d'Orbigny's *Ceriocava*, 1854.

11. Ulrich and Bassler, 1904 (*Smithson. misc. Coll.* 47 : 15, pl. 6, figs. 1—6) figure thin sections of the d'Orbigny type illustrated by Boule in 1906.

12. Boule, 1906 (*Ann. Pal.* : 5, pl. 1, figs. 10, 11, pl. 2, fig. 1) figures the type specimen of *Monticulipora mammulata* d'Orbigny, 1850 (= *M. mammulata molesta* Nicholson, 1881).

13. Basler, 1934, proposed *Monticuliporella* as a newname (*J. Wash. Acad. Sci.* 24 (No. 9) : 408) in advance of the publication of Pt. 67, Bryozoa, 1935 of *Foss. Catalogus* for *Monticulipora* as typified by *M. mammulata* d'Orbigny, 1850 of the Ordovician (Trepodomata) upon the conviction that d'Orbigny's *Monticulipora*, 1849, according to the rules of nomenclature must be maintained for his 1849 Jurassic type (Cyclostomata) as the only solution to the problem. This proved to be such an extreme case that the help of the Commission is now sought to reject the use of *Monticuliporella*.

14. In view of the above statements, the Commission is asked to consider our request that the originally cited type of *Monticulipora* d'Orbigny, 1849 (*Ceriodora pustulosa* Michelin, 1846) causing most of the taxonomic trouble, be cancelled as such and replaced by *Monticulipora mammulata* d'Orbigny, 1850, in harmony not only with most authorities and literature on the subject but also possibly with d'Orbigny himself judging from his post-1850 record. The classification will then fall readily in line with a minimum number of changes.

15. In order to give effect to the foregoing proposal, the International Commission is asked :—

- (1) to use its Plenary Powers (a) to set aside all designations or selections of type species for the genus *Monticulipora* d'Orbigny, Oct. 1849, made prior to the Ruling now asked for and (b), having done so, to designate *Monticulipora mammulata* d'Orbigny, [Jan. 1850] (Ordovician), to be the type species of the foregoing genus ;
- (2) to place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Monticulipora* d'Orbigny, 1849 (gender : feminine) (type species, by designation under the Plenary Powers under (1)(b) above : *Monticulipora mammulata* d'Orbigny, [Jan. 1850]) ;
- (3) to place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *mammulata* d'Orbigny, [Jan. 1850], as published in the combination *Monticulipora mammulata* (specific name of type species of *Monticulipora* d'Orbigny, Oct. 1849) ;
- (4) to place the under-mentioned generic name on the *Official Index of Rejected and Invalid Generic Names in Zoology* : *Monticuliporella* Bassler, 1934 (a junior objective synonym of

Monticulipora d'Orbigny, Oct, 1849, as defined under the Plenary Powers under (1)(b) above) ;

- (5) to place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology*: MONTICULIPORIDAE Nicholson, 1881 (type genus: *Monticulipora* d'Orbigny, Oct. 1849).

II. THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : On the receipt in 1951 of the preliminary communication from Dr. Bassler and Miss Helen Duncan the question of the possible use of the Plenary Powers to designate a type species in harmony with accustomed usage for the genus *Monticulipora* d'Orbigny was allotted the Registered Number Z.N.(S.) 550.

3. Publication of the present application : The present application was sent to the printer on 19th January 1955 and was published on 28th February in the same year in Part 3 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Bassler and Duncan, 1955, *Bull. zool. Nomencl.* **11** : 90—92).

4. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 28th February 1955 (a) in Part 3 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which the application by Dr. Bassler and Miss Helen Duncan was published) and (b) to the other prescribed serial publications. In addition, such Notice was given also to four general zoological serial publications and to three palaeontological serial publications in Europe and America.

5. Support received from Dr. Madeleine A. Fritz (Curator, Division of Invertebrate Palaeontology, Royal Ontario Museum of Zoology and Palaeontology, Toronto, Canada): On 13th April 1955 Dr. Madeleine A. Fritz (*Curator, Division of Invertebrate Palaeontology, Royal Ontario Museum of Zoology and Palaeontology, Toronto, Canada*) addressed the following letter to the Office of the Commission in regard to the present case (Fritz, 1955, *Bull. zool. Nomencl.* **11** : 265):—

Use of the Plenary Powers (a) to set aside all designations or selections of type species for the genus *Monticulipora* d'Orbigny, Oct. 1849, made prior to the Ruling now asked for and (b), having done so, to designate *Monticulipora mammulata* d'Orbigny, [Jan. 1850], to be the type species: I am heartily in accord with the above proposal and should like my approval registered.

6. No objection received: No objection to the action proposed in the present case was received from any source.

7. Supplementary proposal in relation to the specific name "frustulosa" d'Orbigny, 1849, as published in the combination "Monticulipora frustulosa": Following upon a suggestion received from Professor J. Chester Bradley Mr. Hemming, as Secretary, prepared the following note recommending that for the reasons there explained the specific name *frustulosa* d'Orbigny, 1849, should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. The note so prepared, which was later annexed as Note 4 to the Voting Paper issued in this case (paragraph 8 below) was as follows:—

4. A Minor Clarification: Commissioner Chester Bradley has pointed out with reference to paragraph 2 of the present application that, when in 1849 d'Orbigny established the nominal genus *Monticulipora*, he had no intention of renaming as *frustulosa* the type species previously named *pustulosa* by Michelin, his sole object being to cite the type species of his new genus, first in its new combination and, second, in the combination in which its name had originally been published (by Michelin). The so-called name *frustulosa* d'Orbigny is thus either a printers' error for *pustulosa* or an error made by d'Orbigny in copying Michelin's name. In either case, *frustulosa* is an Erroneous Subsequent Spelling for *pustulosa* and as such should now be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*.

III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

8. Issue of Voting Paper V.P.(55)24 : On 9th November 1955 a Voting Paper (V.P.(55)24) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the generic name *Monticulipora* d'Orbigny, 1849, as set out in Points (1) to (5) in paragraph 15 on page 92 of Volume 11 of the *Bulletin of Zoological Nomenclature* [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Opinion*], subject to the minor clarification specified in Note 4 overleaf" [i.e. in the Note numbered as above reproduced in paragraph 7 of the present *Opinion*].

9. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 9th February 1956.

10. Particulars of the Voting on Voting Paper V.P.(55)24 : At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(55)24 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-five (25) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Hering ; Vokes ; Bodenheimer ; Bradley (J.C.) ; Mayr ; Riley ; Dymond ; Prantl ; Lemche ; Esaki ; do Amaral ; Hankó ; Key ; Boschma ; Sylvester-Bradley ; Jaczewski ; Mertens ; Cabrera ; Stoll ; Bonnet ; Miller ; Tortonese ; Kühnelt ; Hemming ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned* :

None.

11. Declaration of Result of Vote : On 10th February 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(55) 24, signed a Certificate that the Votes cast were as set out in paragraph 10 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

12. Preparation of the Ruling given in the present " Opinion " : On 30th October 1956 Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(55)24.

13. Original References : The following are the original references for the generic and specific names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Opinion* :—

frustulosa, *Monticulipora*, d'Orbigny, October 1849, *Rev. Mag. Zool.* (2) **1** : 503

mammulata, *Monticulipora*, d'Orbigny, [January 1850], *Prodr. Pal.* **1** : 25

Monticulipora d'Orbigny, October 1849, *Rev. Mag. Zool.* (2) **1** : 503

Monticuliporella Bassler, 1934, *J. Wash. Acad. Sci.* **24** (No. 9) : 408

14. The original reference for the family-group name placed on the *Official List of Family-Group Names in Zoology* by

the Ruling given in the present *Opinion* is as follows :

MONTICULIPORIDAE Nicholson, 1881, *Structure Affin. Genus Monticulipora* : 90, pl. 6. figs. 2, 2d.

15. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

16. The present *Opinion* shall be known as *Opinion* Four Hundred and Forty-Three (443) of the International Commission on Zoological Nomenclature.

DONE in London, this Thirtieth day of October, Nineteen Hundred and Fifty-Six.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING